

**PROJECT:**
**TYPE:**
**Features**

The FINCH family of cylinders with a 1" aperture, features exceptional output, flexibility, and a broad range of configurations to provide discreet quality illumination while integrating into the architecture. It is available in a fixed downlight, adjustable (*with 50° tilt*), wall mount and even exterior ground mount options. Whether installed on ceilings, walls/mullions or the ground, the FINCH family blends seamlessly into its surroundings.

The FINCH wall mount cylinder, 6" in length, offers up to 1000 lm output and has a choice of beveled front door options for additional shielding for the direct portion and a flush lens for the indirect portion, to prevent dust accumulation.

**Product Overview**

Type: Wall Mount, Direct or Indirect  
 Wattage: 6W, 8W, 10W  
 Color Temp: 2400K, 2700K, 3000K, 3500K, 4000K  
 CRI: 80+ or 90+ typ.  
 Dimming: 0-10V, DALI


**Certifications**

**Fixture Summary**
**Performance Data**

Watts	Delivered Lumens	LPW	Color Temp	CRI
6	643	102.1	3000K	80+
8	787	93.7	3000K	80+
10	927	88.3	3000K	80+

Data is based on flood optic, standard bevel, 3000K, 80+ 120V IES file available on website..

**Electrical Data**

	6W		8W		10W	
Voltage	System Watts	Amps	System Watts	Amps	System Watts	Amps
120V	6.3	0.054	8.4	0.071	10.5	0.088
277V	6.7	0.034	8.6	0.038	10.7	0.044

Electronic constant current LED driver.












**PROJECT:**
**TYPE:**

To Order, please specify both the light fixture and remote driver.

Step 1: Fixture Example: FIN9-WD-48V.10.309.WF.BT.GLD.DB.RC.0-10V.SOL

Step 2: Transformer Example: TR-48V100W

**STEP 1: 1" Wall Mount Direct or Indirect Ordering Information**

1	2	3	4	5	6	7	8	9	
1	Model	2	Wattage	3	Color Temp and CRI	4	Beam Spread	5	Body Finish
	<b>FIN6-WD-48V</b> 6" wall mount, direct  <b>FIN6-WI-48V</b> 6" wall mount, indirect	<b>6</b> 6W (643 lm) <b>8</b> 8W (787 lm) <b>10</b> 10W (927 lm)	<b>30</b> 3000K, 80+ <b>35</b> 3500K, 80+ <b>40</b> 4000K, 80+ <b>249</b> 2400K, 90+ <b>279</b> 2700K, 90+ <b>309</b> 3000K, 90+ <b>359</b> 3500K, 90+ <b>409</b> 4000K, 90+	<b>SP</b> spot, 15° <b>FL</b> flood, 28° <b>WF</b> wide flood, 35° <b>VWF</b> very wide flood, 50°	<b>WT</b> white texture  <b>BT</b> black texture  <b>SLV</b> matte silver  <b>BRZ</b> bronze  <b>DBZ</b> dark bronze  <i>For custom RAL finish, consult factory</i>				
6	Bevel Finish	7	Door Style	8	Mounting	9	Drivers/Controls	9	Options/Accessories
	<u>Direct</u> <b>MW</b> matte white  <b>MB</b> matte black  <b>SLV</b> matte silver  <b>BRZ</b> bronze  <b>DBZ</b> dark bronze  <b>GLD</b> gold  <i>For custom RAL finish, consult factory. Omit from nomenclature when ordering GLOW door style.</i>  <u>Indirect</u> <i>Finish to match body finish, omit from nomenclature.</i>	<u>Direct</u> <b>SB</b> standard bevel (1/4" recess)  <b>DB</b> deep bevel (5/8" recess)  <b>GLOW</b> frosted glow lens (1/2" drop)  <u>Indirect</u> <b>SBX</b> standard bevel with flush lens  <b>GLOW</b> frosted glow lens (1/2" height)	<b>MUL</b> mullion mount (Ø2")  <b>C</b> canopy (Ø5")  <b>RC</b> reduced canopy (Ø3-1/2")  <b>CDC</b> conduit canopy (Ø4-1/8")	<b>0-10V</b> 0-10V, 1% dim <b>DALI</b> DALI, 1% dim	<b>SOL</b> solite beam softening lens  <b>HEX</b> hexcell louver  <b>LS</b> linear spread lens				

**STEP 2: Transformer Ordering Information (to power integral driver)**

Amerlux offers 100W 48V DC constant current transformers with enclosure.

**TR-48V100W**
**1**

1 Model
<b>TR-48V100W</b> 100W, 48V transformer with enclosure, 120/277V input

For enclosure drawings &amp; wiring schematics, see pages 6-7.

**PROJECT:**
**TYPE:**

## Specifications

### Application

Retail, commercial and hospitality wall mounted accent lighting.

### Construction

Extruded aluminum precision machined body, door &amp; heatsink.

### Optical

TIR optics

Beam Spreads: Spot 15°, Flood 28°, Wide Flood 35°,

Very Wide Flood 50°

### LED

Color Temp: 2400K, 2700K, 3000K, 3500K, 4000K

CRI: 80+ &amp; 90+ typ.

R9 Values: 11 (83 CRI), 55 (92 CRI)

Binning: 3 MacAdam (SDCM)

Life: 50,000+ hrs, &gt; 70% of initial lumens at 50,000 hrs

### Finish

Powder coat paint

*Consult factory for custom finishes*

### Mounting

Wall mount

### Certifications

CSA tested to UL standards

Indoor use only

Damp location

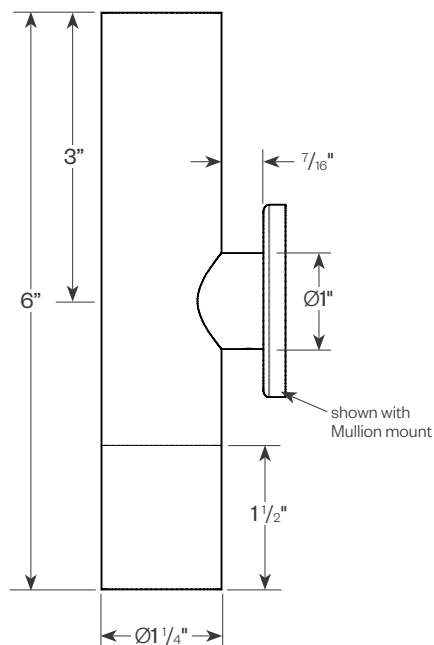
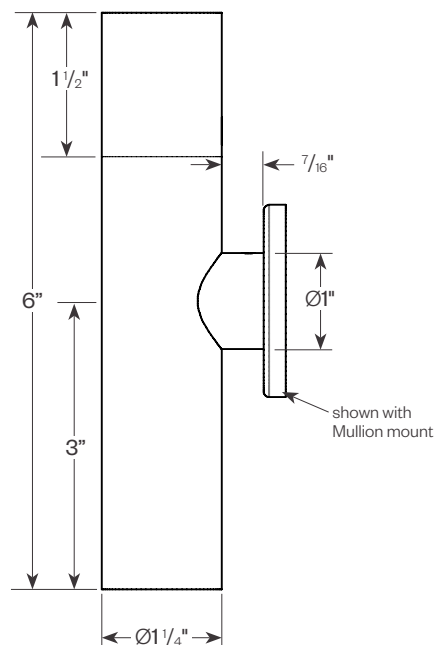
### Warranty

5 year limited warranty

### Electrical

*This product complies with IEEE C62.41 for surge endurance up to 2.5KV.*
*Amerlux® recommends using additional surge protection with this unit (supplied by others), surge and over voltage damage is not covered under warranty.*

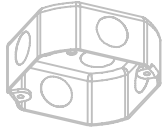
## Product Details

**FIN6-WD**

**FIN6-WI**


PROJECT:

TYPE:

## Junction Box Mounting Requirements



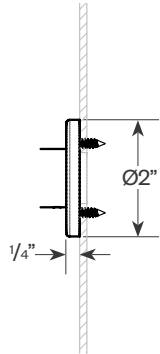
All Mounts Require 4" Octagonal Junction Box *(by others)*



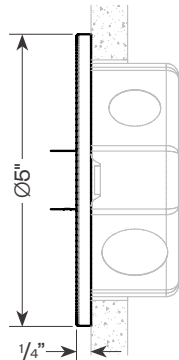
Reduced Canopy (**RC**) Mounts also Require Raised Cover *(by others)* for 4" Octagonal Junction Box

## Mounting Options

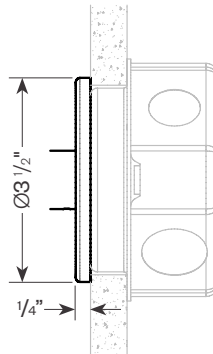
Mullion Mount



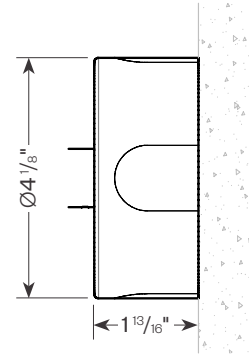
Canopy Mount



Reduced Canopy Mount



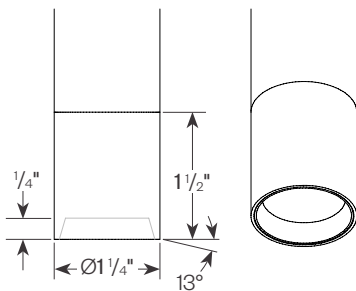
Conduit Canopy Mount



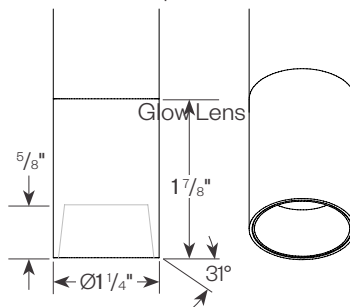
## Door Styles

Direct

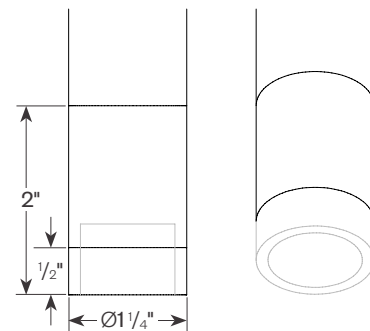
Standard Bevel (**SB**)



Deep Bevel (**DB**)

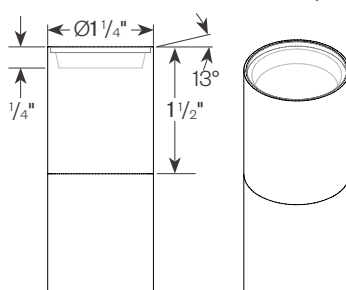


Glow Lens

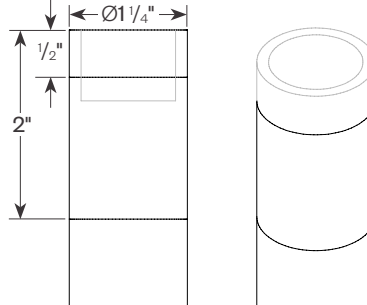


Indirect

Standard Bevel with flush lens (**SBX**)



Glow Lens



## Finish Options

Powder coat paint. Consult factory for custom finishes.



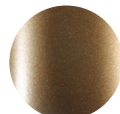
Matte Black



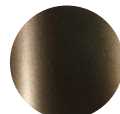
Matte White



Matte Silver



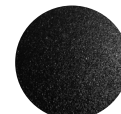
Bronze



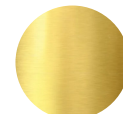
Dark Bronze



White Texture



Black Texture



Gold  
Available for Bevel  
Finish only

PROJECT:

TYPE:

## Performance Data

**Multiplying Factors:** (Multiplying Factor is based on 3000K, 80+, 120V IES file on website)

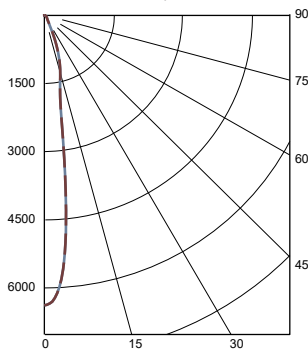
Wattage:	6W	8W	10W	20W*
Factor:	0.44	0.54	0.64	1.0

\* Multiplying factors based on IES 20W tested fixture.  
20W is not available for this fixture type.

CCT:	3000K, 80+	3500K, 80+	4000K, 80+	2400K, 90+	2700K, 90+	3000K, 90+	3500K, 90+	4000K, 90+
Factor:	1.0	1.04	1.06	0.76	0.83	0.88	0.92	0.93

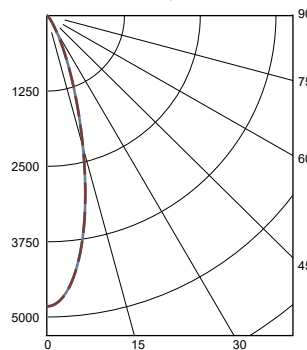
### 20W, Standard Bevel, 3000K, 80+

Spot Distribution  
LTL # 14815215.01A  
Lumens: 1130; lm/W: 57.3



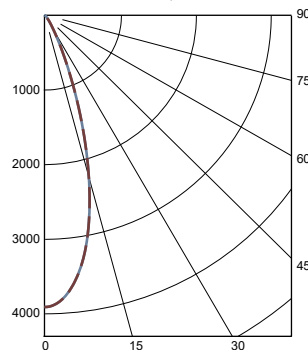
Candelas at Nadir	Deg	Candela
	0	6385
	5	5036
	15	1276
	25	354
	35	112
	45	75

Flood Distribution  
LTL # 14815215.02A  
Lumens: 1459; lm/W: 73.9



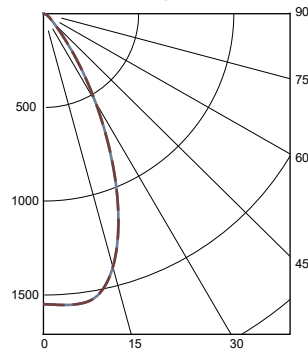
Candelas at Nadir	Deg	Candela
	0	4821
	5	4439
	15	2154
	25	608
	35	155
	45	52

Wide Flood Distribution  
LTL # 14815215.03A  
Lumens: 1430; lm/W: 72.5



Candelas at Nadir	Deg	Candela
	0	3908
	5	3714
	15	2269
	25	632
	35	144
	45	46

Very Wide Flood Distribution  
LTL # 14815215.04A  
Lumens: 1241; lm/W: 62.9



Candelas at Nadir	Deg	Candela
	0	1549
	5	1558
	15	1394
	25	821
	35	303
	45	90

## Application Data

### Notes and Definitions:

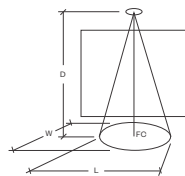
Beam spread is to 50% center beam candlepower (CBCP).

D=Distance to floor or wall.

FC=Footcandles on floor or wall at center beam aiming location.

L=Effective Visual Beam length in feet (50% of maximum footcandle level).

W=Effective Visual Beam width in feet (50% of maximum footcandle level).



### Spot

0° Aiming Angle  
Horizontal  
Footcandles

D	FC	L	W
5.0'	158	1.9	1.9
7.5'	91	2.5	2.5
10.0'	57	3.0	3.0
12.5'	38	3.5	3.5

### Flood

0° Aiming Angle  
Horizontal  
Footcandles

D	FC	L	W
5.0'	178	2.6	2.6
7.5'	85	3.6	3.6
10.0'	49	4.7	4.7
12.5'	31	5.8	5.8

### Wide Flood

0° Aiming Angle  
Horizontal  
Footcandles

D	FC	L	W
5.0'	138	3.0	3.0
7.5'	66	4.3	4.3
10.0'	38	5.6	5.6
12.5'	25	7.0	7.0

### Very Wide Flood

0° Aiming Angle  
Horizontal  
Footcandles

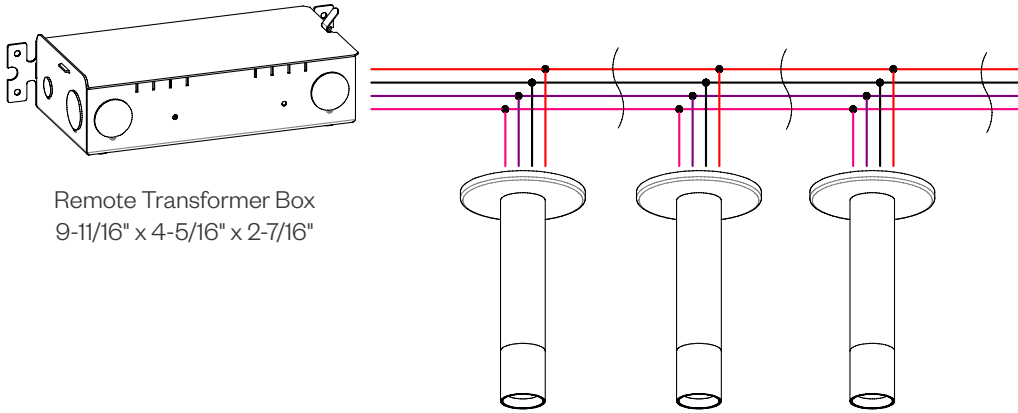
D	FC	L	W
5.0'	61	4.2	4.2
7.5'	27	6.3	6.3
10.0'	16	8.4	8.4
12.5'	10	10.6	10.6

PROJECT:

TYPE:

## Power Supply Options for Integral Driver

**TR-48V100W** 100W, 48V transformer with enclosure, 120/277V input



Remote Transformer Box  
9-11/16" x 4-5/16" x 2-7/16"

PROJECT:

TYPE:

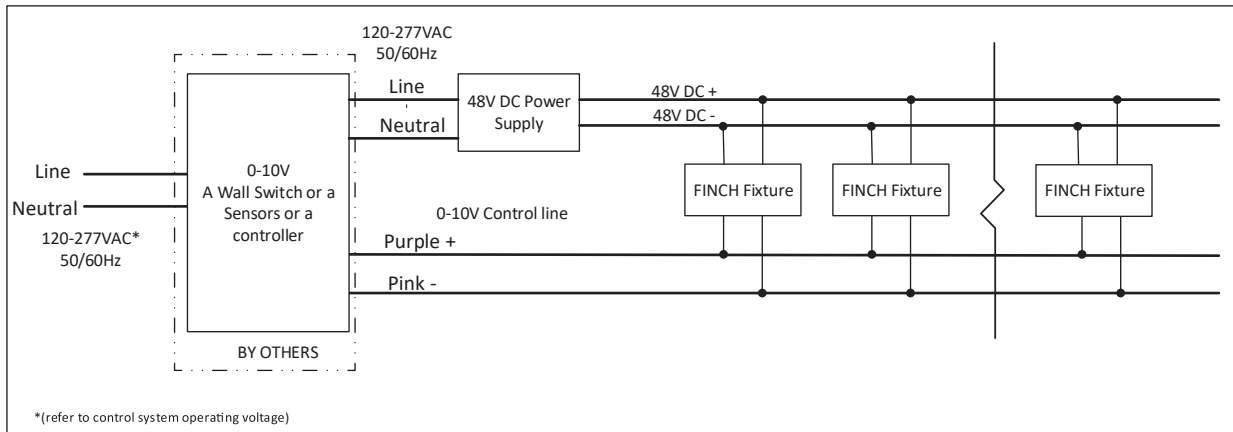
## Dimming Compatibility

Amerlux® Finch fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (*Dimmer, Fixture Quantity, Voltage, etc*) may affect dimming performance.

**--- NOTE: INFORMATION BELOW IS FOR WIRED DIMMERS ONLY. FOR WIRELESS DIMMERS, CONSULT FACTORY ---**

**0-10V DIMMING** Integrates into a variety of building management and daylighting controls

### 0-10V Wiring Diagram



#### Compatible Dimmers\*:

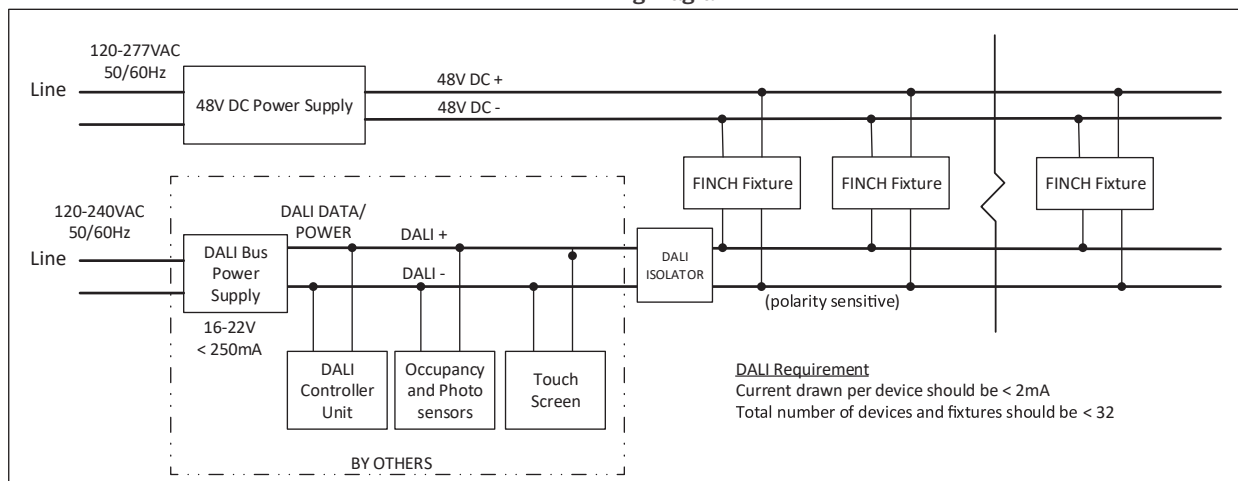
Wall Box	Central System
Lutron "Diva" - DVSTV	Lutron Grafik Eye with GRX-TVI Interface
Leviton Renoir II 0-10V	

#### Notes:

- Dims down to 1% light output
- Consult Dimming manufacturer for the operation and installation instructions **DO NOT SHARE NEUTRALS!**

**DALI DIMMING** Digital control protocol allows individual fixture control

### DALI Wiring Diagram



#### Suggested Switches for Wired Connections:

Manufacturer	Model	
Loytec DALI PSU	L-DALI-PWR2-U	DALI Bus Power Supply, 85-240VAC input, 2 channel DALI PSU, 116mA per channel
Loytec Controller	L-DALI-ME204-U	DALI Controller, 4 channel DALI
Loytec Controller	L-DALI-ME201-U	DALI Controller, 1 DALI channel with integrated DALI power supply
B.E.G	PP-DALI-PS	DALI Bus Power Supply, 120-277VAC input, 100mA bus power

**PROJECT:**
**TYPE:**

### Dimming Compatibility *(continued)*

Amerlux® Finch fixtures are compatible with all major dimming protocols prevalent in the United States. Please see below for general compatibilities and wiring diagrams. Amerlux recommends testing your unique dimming configuration as the exact full configuration (*Dimmer, Fixture Quantity, Voltage, etc*) may affect dimming performance.

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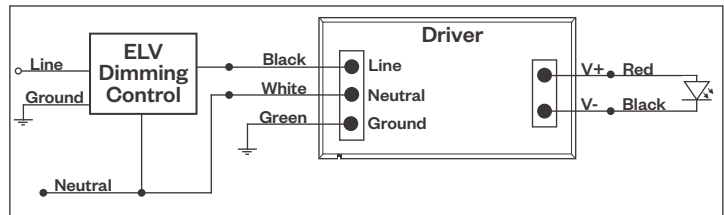
#### ELV - Electronic Low Voltage (Reverse Phase) DIMMING (Standard)

Utilizes specialized "ELV" dimmers.

##### Notes:

- 120VAC or 277VAC\*
- Dims down to 5% light output (most cases)
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**
- Must meet dimmer Minimum Load Requirements per dimming manufacturer

#### ELV Wiring Diagram



#### Compatible Dimmers†:

Wall Box (ELV 120VAC)	Wall Box (ELV 277VAC)	Central System
Lutron "Diva"	Leviton Revoir II AWSMT-E	Lutron "GP" Panel with PHPM-PA 120/277VAC
Lutron "Nova-T"		Lutron Grafik Eye QS with PHPM-PA 120/277VAC
Lutron "Maestro"		
Lutron "Skylark"		
Leviton "Surslide"		
Leviton "Vizio"		

#### LUTRON LDE1 DIMMING

Integrates into Lutron EcoSystem building management

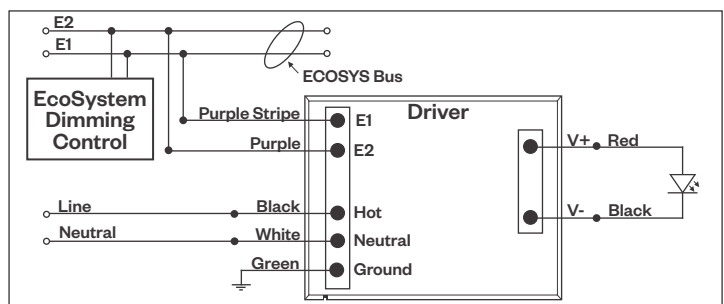
##### Notes:

- 120VAC or 277VAC\*
- Dims down to 1% light output
- EcoSystem Control
- Consult Dimming manufacturer for installation instructions - **DO NOT SHARE NEUTRALS!**

#### Compatible Dimmers†:

Lutron ECO System	Central System
Pow Pak Dimming Modules	Lutron EcoSystem compatible controls
Energi Savr Node	
Grafik Eye QS/Homeworks	
QS Control Unit	
Quantum Hub	
Homeworks QS/My Room	

#### LDE1 (HILUME-H-ECO) EcoSystem Digital Control Wiring Diagram



##### Notes:

\* Driver is 277VAC dimmable with appropriate dimmer (by others). All provided wiring diagrams show 120VAC wiring colors and method. Please refer to 277VAC dimmer installation instructions for 277VAC wiring diagrams.

† The absence of a dimmer from the lists above does not imply incompatibility. Please consult factory for compatibility inquiries.